

Title (en)

FOAMED AUXILIARY MATERIAL AND FOAMED MOLDING METHOD

Title (de)

GESCHÄUMTES HILFSMATERIAL UND VERFAHREN ZUM GESCHÄUMTEN FORMEN

Title (fr)

MATIÈRE AUXILIAIRE ALVÉOLAIRE ET PROCÉDÉ DE MOULAGE ALVÉOLAIRE

Publication

EP 3239220 B1 20201028 (EN)

Application

EP 15872940 A 20151218

Priority

- JP 2014258581 A 20141222
- JP 2015085530 W 20151218

Abstract (en)

[origin: EP3239220A1] A foaming assistant material and a foam-molding method, which can achieve the functions of a nucleating agent, a dispersant, and the like sufficiently so that the cells can have smaller diameter, the mixing of foreign substances is prevented, and so on, and can produce the high-quality foam-molded article, are provided. The foaming assistant material is kneaded together with a raw material pellet and the mixture is subjected to the foam molding. The foaming assistant material is a pellet obtained by adding inorganic particles, a chemical foaming agent, and a dispersant to a dilution resin. An antioxidant may be added further to the dilution resin. In the foam-molding method, inorganic particles, a chemical foaming agent, a dispersant, and an antioxidant are added to a raw material resin at the same time in a state that the inorganic particles, the chemical foaming agent, the dispersant, and the antioxidant are mixed in advance.

IPC 8 full level

C08J 9/04 (2006.01); **C08J 3/22** (2006.01); **C08J 9/00** (2006.01); **C08J 9/06** (2006.01); **C08K 3/34** (2006.01); **C08L 23/04** (2006.01)

CPC (source: EP KR US)

B29C 44/3442 (2013.01 - KR); **C08J 3/22** (2013.01 - EP US); **C08J 3/226** (2013.01 - KR); **C08J 9/0023** (2013.01 - EP US); **C08J 9/0038** (2013.01 - EP US); **C08J 9/0052** (2013.01 - EP US); **C08J 9/0061** (2013.01 - EP US); **C08J 9/0066** (2013.01 - EP US); **C08J 9/04** (2013.01 - KR US); **C08J 9/06** (2013.01 - EP US); **C08J 9/08** (2013.01 - US); **C08K 3/34** (2013.01 - EP KR US); **C08K 5/13** (2013.01 - KR); **C08L 23/04** (2013.01 - EP KR US); **C08J 2201/024** (2013.01 - EP US); **C08J 2203/02** (2013.01 - EP US); **C08J 2203/18** (2013.01 - US); **C08J 2207/00** (2013.01 - EP US); **C08J 2300/30** (2013.01 - EP US); **C08J 2323/06** (2013.01 - EP US); **C08J 2423/06** (2013.01 - EP US)

Citation (examination)

- EP 2803515 A1 20141119 - JSP CORP [JP]
- EP 2633967 A1 20130904 - KYORAKU CO LTD [JP]
- EP 1403027 A2 20040331 - JSP CORP [JP]
- US 2010190878 A1 20100729 - MARUYAMA TAKESHI [SG]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3239220 A1 20171101; **EP 3239220 A4 20180516**; **EP 3239220 B1 20201028**; CN 107108937 A 20170829; CN 107108937 B 20210702; JP 2016117835 A 20160630; JP 6701501 B2 20200527; KR 102058746 B1 20191223; KR 20170093230 A 20170814; US 10590252 B2 20200317; US 2017342231 A1 20171130; WO 2016104372 A1 20160630

DOCDB simple family (application)

EP 15872940 A 20151218; CN 201580071100 A 20151218; JP 2014258581 A 20141222; JP 2015085530 W 20151218; KR 20177018948 A 20151218; US 201515538924 A 20151218